

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

ORDER NO. 01-141

WASTE DISCHARGE REQUIREMENTS

FOR

UNITED STATES DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT, OWNER
RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT, OWNER AND OPERATOR
EDOM HILL SANITARY LANDFILL
CLASS III LANDFILL
North of Cathedral City - Riverside County

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. The Riverside County Waste Management Department (hereinafter referred to as the discharger) 1995 Market Street, Riverside, CA 92501-1719, operates the Edom Hill Sanitary Landfill (hereinafter referred to as the Landfill).
2. The Landfill is located in Southern California and is on property that is partly owned by the United States Government and administered by the Bureau of Land Management (hereinafter also referred to as the discharger), whose address is 690 W. Garnet Avenue, P.O. Box 581260, North Palm Springs, CA 92258-1260, and partly owned by Riverside County Waste Management Department (hereafter also referred to as the discharger), whose address is 1995 Market Street, Riverside, CA 92501. Location of the Landfill is shown on Attachments A & B.
3. The Landfill portion of the property owned by the United States Department of the Interior and administered by the Bureau of Land Management, is situated in Section 26, T3S, R5E, SBB&M, while the remaining portion owned by the County of Riverside, (parcels totaling 296 acres) is situated in Section 27, T3S, R5E, SBB&M, as shown on Attachment C.
4. Definitions: The following terms used in this Board Order are as defined:
 - a. Waste Management Facility (WMF) - The entire parcel of property where waste discharge operations are conducted.
 - b. Waste Management Unit (WMU) - An area of land or a portion of a Waste Management Facility, where waste is or was discharged. The term includes containment and ancillary features for precipitation and drainage control and monitoring.
 - c. Landfill - A Waste Management Unit where waste is discharged to land. It does not include surface impoundments, waste piles, or land and soil treatment.
 - d. Discharger - Discharger means any person who discharges waste that could affect the quality of the waters of the State, and includes any person who owns a Waste Management Unit or who is responsible for the operation of a Waste Management Unit (Title 27, California Code of Regulations).
5. The discharger reports that the WMF occupies a total area of 936 acres; the Landfill footprint is approximately 148 acres. The expected closure date of the WMF is the year 2004.

6. The land within a radius of 1,000 feet of the WMF is uninhabited. Adjacent land use is zoned primarily Natural Asset (NA) and W-2 (controlled development).
7. The WMF is located on the uplifted Edom Hill; a northwestern part of Indio Hills. It is within the Coachella Valley, between the Transverse Ranges and the Peninsula Ranges Geomorphic Provinces. The dominant geologic structural feature of the Valley is the San Andreas Fault.
8. The discharger reports that the south branch of the San Andreas Fault trends N71W to N61W through the southern half of the WMF. The discharger further reports that a maximum probable earthquake of M7.0 along the south branch of the San Andreas Fault may occur.
9. The Landfill began accepting waste in 1967. The Landfill has been subject to Waste Discharge Requirements (WDRs) since 1970 under the following Board Orders:

<u>BOARD ORDER</u>	<u>DATE ADOPTED</u>
70-009	04/09/70
83-075	09/21/83
89-009	01/25/89
92-008	01/22/92

10. The WDRs were amended when Board Order No. 93-071, amending all Municipal Solid Waste Landfill Board Orders to comply with Federal Regulations, was adopted by the Regional Board.
11. In 1998 the WDRs were again updated under Board Order No. 98-049 to comply with current laws and regulations as set forth in the California Water Code and the combined State Water Resource Control Board/California Integrated Waste Management Board Regulations, Division 2, Title 27 (hereinafter referred to as Title 27).
12. On May 3, 2001, the discharger submitted a request to modify the monitoring parameters and monitoring frequencies in Board Order No. 98-049.
13. This Board Order updates Board Order No. 98-049 to reflect the recent water quality related concerns and ground water monitoring/reporting changes.
14. The Landfill has a potential total waste capacity of 6,775,820 tons, with an appropriate total refuse volume of 10,038,252 cubic yards. The total waste-in-place is approximately 5,703,465 tons (8,449,578 cubic yards) as of June 30, 2001. The remaining capacity is approximately 1,072,355 tons (approximately 1,588,674 cubic yards) as of June 30, 2001.
15. Three (3) liquid ponds were constructed at the WMF in 1989. The ponds were not lined and did not have a leachate collection and removal system. From 1989 to 1995, the ponds received grease trappings and chemical toilet wastes as allowed under WDRs Board Order No. 92-008. The three (3) ponds have been inactive since 1995. Location of the ponds is shown on Attachment D.

16. In the Report of Waste Discharge (ROWD) submitted in 1998, the discharger proposed to clean close the ponds, once all of the liquid has evaporated. On November 27, 2000, the discharger performed a site investigation and found that the three (3) ponds are dry and that Pond No. one (1) contains no residue and Ponds No. two (2) and three (3) contain approximately three (3) inches of dry residue.
17. On April 19, 2001, the discharger submitted a work plan for clean closure of the three (3) liquid waste ponds.
18. The discharger reports that the WMF is not located in a 100-year flood plain.
19. The discharger reports that no springs or perched groundwater conditions are known to exist beneath the WMF. The effect of the San Andreas Fault, the deformation of the geological materials beneath the WMF due to older faulting, tilting and folding, and the variability of these materials (siltstone to conglomerate) suggest that the groundwater beneath the WMF is compartmentalized and extremely complicated.
20. The locations of the groundwater monitoring wells at the WMF are shown on Attachment D. The average groundwater level within the wells varies from 295 feet below the existing ground surface in monitoring well EH-4 (North of the San Andreas Fault) to 967 feet in EH-8 (South of San the Andreas Fault).
21. Analyses of groundwater samples collected in December 1997 indicate that the total dissolved solids (TDS) concentration of groundwater beneath the WMF ranges from 532 mg/L to 916 mg/L.
22. The Water Quality Control Plan for the Colorado River Basin Region (Region) of California (Basin Plan) was adopted on November 17, 1993 and designates the beneficial uses of ground and surface waters in the Region.
23. Edom Hill WMF is located in the Coachella Hydrologic Subunit. The beneficial uses of ground waters in the Coachella Hydrologic Subunit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural supply (AGR)
24. In 1988 the discharger installed 15 gas probes around the perimeter of the Landfill as shown on Attachment E. These probes are used to monitor any gas release from the Landfill.
25. The climate of the region is arid. The average annual precipitation is approximately 5 inches and the average annual evapotranspiration rate is approximately 105 inches.
26. The discharger previously proposed a vertical expansion of the WMF and on May 27, 1997, the County of Riverside Board of Supervisors approved the vertical expansion project and by Resolution No. 97-191 certified that the project's Environmental Impact Report (EIR) complies with the California Environmental Quality Act (CEQA) Public Resources Code, Section 21000 et. seq. In Board Order No. 98-049, the Regional Board adopted findings that the project as approved by the County of Riverside had the following potential significant impacts on water quality:

- a. Potential Impact: Surface water flows will be altered by the proposed project.

Mitigation: Compliance with Prohibitions No. 1 and 7. Specifications No. 3, 4, and 5 and Provisions No. 2 and 6 of Board Order 98-049 would mitigate or avoid the adverse environmental impacts of the project on water quality.

- b. Potential Impact: The proposed project could result in leachate formation that could impact ground water resources. This risk currently exists and is not incrementally increased by the project.

Mitigation: Compliance with Prohibition No. 5, Specifications No. 4, 5, 6, 7, 8, and 9, and Provisions No. 7, 9, 12 and 13 of Board Order 98-049 would mitigate or avoid the adverse environmental impacts of the project on water quality.

- c. Potential Impact: As an unlined Landfill, migrating Landfill gas (LFG) that contains volatile organic compounds can be a source of ground water pollution, if uncontrolled. This risk currently exists and is not increased by the project.

Mitigation: Compliance with Specifications No. 7 and 8, and Provisions No. 9, 12 and 13 of Board Order 98-049 would mitigate or avoid the adverse environmental impacts of the project on water quality.

- 27. In accordance with Section 15301, Chapter 3, Division 6, Title 14 of the California Code of Regulations, the issuance of these Waste Discharge Requirements, which govern the operation of an existing facility involving negligible or no expansion of use beyond that previously existing, is exempt from the provisions of CEQA (Public Resources Code, Section 21000 et seq.)

- 28. Federal regulations for storm water discharges were promulgated by the United States Environmental Protection Agency (US EPA) on 16 November 1990 (40 CFR Parts 122, 123, and 124). The regulations require specific categories of facilities which discharge storm water associated with industrial activity to obtain NPDES permits and to implement Best Conventional Pollutant Technology (BCPT) to reduce or eliminate industrial storm water pollution.

- 29. The State Water Resources Control Board adopted Order No. 97-03-DWQ (General Permit No. CAS000001), specifying Waste Discharge Requirements for discharges of storm water associated with industrial activities, excluding construction activities, and requiring submittal of a Notice of Intent by industries to be covered under the Permit.

- 30. The discharger has submitted to this Regional Board and to the California Integrated Waste Management Board, evidence of Financial Assurance for Closure and Post Closure, pursuant to Section 22207 and 22212 of Title 27.

- 31. The Regional Board has notified the discharger and all known interested agencies and persons of its intent to update Waste Discharge Requirements for this discharge and has provided them with an opportunity for a public meeting and an opportunity to submit comments.

- 32. The Regional Board, in a public meeting, heard and considered all comments pertaining to this discharge.

IT IS HEREBY ORDERED, that Board Order No. 98-049 is rescinded, and in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, the discharger shall comply with the following:

A. Specifications

1. Waste materials shall be confined to the existing footprint of the Waste Management Facility as described on the attached site maps.
2. Waste material shall not be discharged on any ground surface that is less than five (5) feet above the highest anticipated ground water level.
3. The Waste Management Facility shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods having a predicted frequency of once in 100 years.
4. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources, shall not contact or percolate through the wastes discharged at this site.
5. The exterior surfaces of the disposal area, including the intermediate and final Landfill covers, shall be graded and maintained to promote lateral runoff of precipitation and to prevent ponding.
6. There shall be no discharge of liquid wastes at this site unless approved by the Regional Board's Executive Officer
7. The discharger shall implement the attached Monitoring and Reporting Program No. 01-141, and revisions thereto, in order to detect, at the earliest opportunity, any unauthorized discharge of waste constituents from the WMF, or any unreasonable impairment of beneficial uses associated with (caused by) discharges of waste to the WMF.
8. The discharge shall not cause the concentration of any Constituent of Concern or Monitoring Parameter to exceed its respective background value in any monitored medium at any Monitoring Point assigned to Detection Monitoring pursuant to Part II.B.4. of the attached Monitoring and Reporting Program No. 01-141.
9. The discharge shall not cause the release of pollutants, or waste constituents in a manner which could cause a condition of contamination, or pollution to occur, as indicated by the most appropriate statistical (or non-statistical) data analysis method and retest method listed in Part III of the attached Monitoring and Reporting Program No. 01-141.
10. The discharger shall follow the Water Quality Protection Standard (WQPS) for Detection Monitoring established by the Regional Board in this Board Order pursuant to Title 27, Section 20390. The following are five (5) parts of WQPS as established by the Regional Board (the terms of art used in this Board Order regarding monitoring are defined in Part I of the attached Monitoring and Reporting Program No. 01-141 and revisions thereto, which is hereby incorporated by reference:
 - a. The discharger shall test, for the Monitoring Parameters and the Constituents of Concern (COC) listed in Monitoring and Reporting Program No. 01-141, and revisions thereto.

- b. Concentration Limit – The concentration limits for each Monitoring Parameter and Constituents of Concern for each Monitoring Point (as stated in Detection Monitoring Program Part II), shall be its background value as obtained during that reporting period.
- c. Monitoring Points and background Monitoring Points for Detection Monitoring shall be those listed in Part II.B of the attached Monitoring and Reporting Program No. 01-141, and any revised Monitoring and Reporting Program approved by the Regional Board’s Executive Officer.
- d. The Points of Compliance are shown on Attachment D and extend through the zone of saturation.
- e. Compliance Period – The estimated duration of the Compliance Period for this Landfill is six (6) years. Each time the Standard is not met (i.e., releases discovered), the Landfill begins a Compliance Period on the date the Regional Board directs the dischargers to begin an Evaluation Monitoring Program. If the dischargers’ Corrective Action Program (CAP) has not achieved compliance with the standard by the scheduled end of the Compliance Period, the Compliance Period is automatically extended until the Landfill has been in continuous compliance for at least three (3) consecutive years.

B. Prohibitions

- 1. The discharge or deposit of hazardous waste as defined in Title 27, California Code of Regulations (hereinafter referred to as Title 27) at this site is prohibited.
- 2. The discharge or deposit of designated waste as defined in Title 27 at this site is prohibited unless approved by the Regional Board's Executive Officer.
- 3. The co-disposal of incompatible wastes as defined in Title 27 is prohibited.
- 4. The discharge of waste to land not owned or controlled by the discharger is prohibited.
- 5. The direct discharge of any waste to any surface waters or surface drainage courses is prohibited.
- 6. The discharge of liquid or semi-solid waste (i.e. waste containing less than 50 percent solids) to the Landfill is prohibited unless approved by the Regional Board’s Executive Officer.

C. Provisions

- 1. The discharger shall immediately notify the Regional Board of any flooding, slope failure or other change in site conditions which could impair the integrity of waste containment facilities or of precipitation and drainage control structures.
- 2. The discharger shall maintain visible monuments identifying the boundary limits of the entire Waste Management Facility.
- 3. The discharger shall comply with all applicable provisions of Title 27 that are not specifically referred to in this Board Order.

4. The discharger shall comply with "Monitoring and Reporting Program No. 01-141" and future revisions thereto, as specified by the Regional Board's Executive Officer.
5. Water used for site maintenance shall be limited to amounts necessary for dust control.
6. All containment structures and erosion and drainage control systems shall be designed and constructed under direct supervision of a California Registered Civil Engineer or Certified Engineering Geologist, and shall be certified by the individual as meeting the prescriptive standards and performance goals of Title 27.
7. The discharger shall maintain in good working order, and operate as efficiently as possible, any facility or control system installed by the discharger to achieve compliance with the Waste Discharge Requirements.
8. This Board Order is subject to Regional Board review and updating, as necessary to comply with changing State or Federal laws, regulations, policies, or guidelines, or changes in the discharge characteristics.
9. The Regional Board considers the property owner to have a continuing responsibility for correcting any problems that may arise in the future as a result of this waste discharge.
10. The discharger shall neither cause nor contribute to the concentration of pollution of ground water via the release of waste constituents in either liquid or gaseous phase.
11. The discharge shall not cause any increase in the concentration of waste constituents in soil-pore gas, soil-pore liquid, soil or other geologic materials outside the WMF if such waste constituents could migrate to waters of the State in either the liquid or the gaseous phase, and cause a condition of contamination or pollution.
12. The discharger shall within 48 hours of a significant earthquake event, submit to the Regional Board a detailed post-earthquake report describing any physical damages to the containment features, ground water monitoring and/or leachate control facilities and a corrective action plan to be implemented at the Landfill.
13. Prior to any change in ownership or management of this operation, the discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Board.
14. The discharger shall ensure that all site-operating personnel are familiar with the content of this Board Order, and shall maintain a copy of this Board Order at the site.
15. This Board Order does not authorize violation of any federal, state, or local laws or regulations.
16. The discharger shall allow the Regional Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the premises regulated by this Board Order, or the place where records must be kept under the conditions of this Board Order;
 - b. Have access to and copy, at reasonable times, any records that shall be kept under the conditions of this Board Order;

- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Board Order; and
 - d. Sample or monitor at reasonable times, for the purpose of assuring compliance with this Board Order or as otherwise authorized by the California Water Code, any substances or parameters at this location.
17. The discharger shall comply with all of the conditions of this Board Order. Any noncompliance with this Board Order constitutes a violation of the Porter-Cologne Water Quality Control Act and is grounds for enforcement action.
 18. This Board Order does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
 19. The discharger shall submit a Notice of Intent (NOI) to the State Water Resources Control Board to be covered under the Statewide General NPDES Permit for Storm Water Discharges Associated with Industrial Activities, Order No. 97-03-DWQ, NPDES No. CAS000001. The discharger shall comply with all the discharge prohibitions, receiving water limitations, and provisions of the General Permit.
 20. The discharger shall submit a sampling and monitoring plan for storm water discharges to the Regional Board's Executive Officer for review and approval no later than 90 days after the adoption of this Board Order. The plan shall meet the minimum requirements of Section B, Monitoring Program and Reporting Requirements of the Statewide General NPDES Permit for Storm Water Discharges Associated with Industrial Activities, Order No. 97-03 DWQ, NPDES No. CAS000001.
 21. Within 180 days of the adoption of this Board Order, the discharger shall submit to the CIWMB, in accordance with Section 22221 of Title 27, assurances of financial responsibility acceptable to the Regional Board's Executive officer for initiating and completing corrective action for all known or reasonably foreseeable release from the Landfill.
 22. The Preliminary and Final Closure and Post-closure Maintenance Plan (PCPMP) shall satisfy all requirements of Title 27 as specified by the Regional Board's Executive Officer. The post-closure period shall be at least thirty (30) years. However, the post-closure maintenance period shall extend as long as the waste poses a threat to water Quality.
 23. One (1) year prior to the anticipated closure of the facility or any unit (portion) thereof, the discharger shall submit to the Regional Board, for review and approval by the Regional Board's Executive Officer, a final closure and post-closure maintenance plan in accordance with Section 21769 of Title 27. The final closure and post-closure maintenance plan shall include seismicity studies.
 24. This Board Order is subject to Regional Board review and updating, as necessary, to comply with changing State or Federal laws, regulations, policies, or changes in the discharge characteristics.

I, Philip A. Gruenberg, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on November 14, 2001.

Executive Officer